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(21) International Application Number: PCT/GB98/01683 (22) International Filing Date: 9 June 1998 (09.06.98) (30) Priority Data: 9711964.8 9 June 1997 (09.06.97) GB (71) Applicant (for all designated States except US): MEDICAL RESEARCH COUNCIL [GB/GB]; 20 Park Crescent, London W1N 4AL (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): BALDWIN, Thomas, John [GB/GB]; Institute of Infections & Immunity, University Hospital, Nottingham NG7 2UH (GB). BORRIELLO, Saverio, Peter [GB/GB]; Public Health Laboratory Service, Central Public Health Laboratory, 61 Colindale Avenue, London NW9 5HT (GB). PALMER, Helen, Mary [GB/GB]; Public Health Laboratory Service, Bristol Royal Infirmary, Marlborough Street, Bristol BS2 8HW (GB). (74) Agent: WOODS, Geoffrey, Corlett; J.A. Kemp & Co., 14 South Square, Gray's Inn, London WC1R 5LX (GB).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: LIVE ATTENUATED VACCINES (57) Abstract <p>An attenuated bacterium in which the native <i>fur</i> gene, or homologue thereof, is modified such that the expression of the <i>fur</i> gene product, or homologue thereof, is regulated independently of the iron concentration in the environment of the bacterium, is suitable for use as a live vaccine. The bacterium may be, in particular, <i>Neisseria meningitidis</i>.</p>		

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